

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An electrical connector comprising
 - a cover equipped with at least one first electrical contact,
 - a case equipped with at least one second electrical contact, and
 - a disconnection device that cooperates with the cover and with the case in order to establish an electrical connection between the first contact and the second contact, which defines a connected state, and in order to bring about a disconnection between the first and the second contact, which defines a disconnected state, characterized in that the electrical connector also comprises
 - a first ~~means of locking lock that makes is possible which is adapted~~ to maintain the disconnection device in the connected state,
 - a release that acts ~~which is adapted to act~~ on the first ~~means of locking lock~~ in order to permit the movement of the disconnection device from [[a]] the connected state to [[a]] the disconnected state of the first and second contacts, and

an elastic member placed between the case and the cover, said elastic member being capable of being moved between a first deformed position in the connected state and a second relaxed position in the disconnected state, ~~said elastic member~~ bringing about a separation of the case with respect to the cover [[,]] while disconnecting the first contacts from the second contacts when the elastic member changes its position from the deformed position toward the relaxed position, when the movement of the disconnection device is triggered by the release.

2. (Original) The connector according to claim 1, further characterized in that the elastic member forms a spring.

3. (Currently amended) The connector according to claim 1, further characterized in that the first ~~means of locking~~ lock is an elastic tongue formed at a point on the bottom of the case.

4. (Currently amended) The connector according to claim 1, further characterized in that the release slides along the peripheral wall of the case and comprises an end intended to be supported against an end of the first ~~means of locking~~ lock, the first ~~means of locking~~ lock also cooperating with the disconnection device.

5. (Currently amended) The connector according to claim 1, further characterized in that the connector is equipped with a Go-NoGo system.

6. (Previously presented) The connector according to claim 1, further characterized in that

the disconnection device is placed between the case and the cover,

the elastic member is linked to the case and to the disconnection device.

7. (Currently amended) The connector according to claim 1, further characterized in that

the disconnection device comprises a first groove and a second groove,

the first ~~means of locking~~ lock comprises an end,

the device cooperates with the case, while sliding along the first ~~means of locking~~ lock, going from the state of disconnection in the direction of the state of connection, in such a manner that the end of the first ~~means of locking~~ lock is positioned in the first groove and then in such a manner that the end of the first ~~means of locking~~ lock is supported against the second groove.

8. (Currently amended) The connector according to claim 7, further characterized in that the first ~~means of locking~~ lock is moved by a height necessary for being dislodged from the second groove.

9. (Currently amended) The connector according to claim 1, further characterized in that the disconnection device is recessed by a groove comprising a shape that is adapted to the shape of the end of the first ~~means of locking~~ lock.

10. (Previously presented) The connector according to claim 1, further characterized in that the elastic member extends by a length corresponding to at least the length of the first contact.

11. (Currently amended) The connector according to claim 1, further characterized in that it comprises a secondary ~~means of locking lock~~ of the first ~~means of locking lock~~ that is capable of being moved between a blocking position of the first ~~means of locking lock~~ and a freeing position of the first ~~means of locking lock~~, it being necessary to maneuver this secondary ~~means of locking lock~~ from the blocking position toward the freeing position so that the first ~~means of locking lock~~ can be actuated by the release.

12. (Currently amended) The connector according to claim 11, further characterized in that it comprises a support wall, the secondary ~~means of locking lock~~ comprising a support, which, in the blocking position of the first ~~means of locking lock~~, inserts between the first ~~means of locking lock~~ and the support wall so as to block the movement of the first ~~means of locking lock~~.

13. (Currently amended) The connector according to claim 11, further characterized in that the secondary ~~means of locking lock~~ comprises a first detent ~~means~~, which opposes the movement of the secondary ~~means of locking lock~~ toward the freeing position when the latter is in the blocking position of the first ~~means of locking lock~~.

14. (Currently amended) The connector according to claim 13, further characterized in that it comprises a notch and in that

the first detent ~~means~~ forms a boss that is capable of being inserted elastically into the notch.

15. (Currently amended) The connector according to claim 14, further characterized in that the boss and the notch comprise, respectively, a first surface and a second surface, while abutting against each other, the first surface and the second surface being each formed in a plane perpendicular to a direction of movement of the secondary ~~means of locking lock~~.

16. (Currently amended) The connector according to claim 11, further characterized in that the secondary ~~means of locking lock~~ comprises a support, an elastic arm, and a hook, the arm linking the support to the hook and the hook bearing a first detent ~~means~~, which opposes the movement of the secondary ~~means of locking lock~~.

17. (Currently amended) The connector according to claim 11, further characterized in that the secondary ~~means of locking lock~~ comprises a second detent ~~means~~ that maintains the secondary ~~means of locking lock~~ in the position freeing the first ~~means of locking lock~~.

18. (Currently amended) A process for the electrical connection of an electrical connection comprising

a cover equipped with at least one first electrical contact,

a case equipped with at least one second electrical contact, and

a disconnection device that cooperates with the cover and with the case in order to establish an electrical connection between the first contact and the second contact, which defines a connected state, and in order to bring about a disconnection between the first and the second contact, which defines a disconnected state, characterized in that it includes the following step

the disconnection device is inserted into the case from a front face in the direction of a back face of the case until the device slides along a first ~~means of locking~~ lock from a first groove to a second groove, the first groove and the second groove being recessed in the disconnection device.

19. (Currently amended) A process for electrical disconnection of an electrical connector comprising

a cover equipped with at least one first electrical contact,

a case equipped with at least one second electrical contact, and

a disconnection device that cooperates with the cover and with the case in order to establish an electrical connection between the first contact and the second contact, which defines a connected state, and in order to bring about a disconnection between the first and the second contact, which defines a disconnected state, characterized in that it includes the following step

a release is moved relative to the disconnection device, in order to dislodge from a groove recessed in the disconnection device a first ~~means of locking lock~~, by at least at a height corresponding to ~~the~~ a depth of said groove.